

5. The medium of claim 1, wherein the horizontally linked list further links at least the subset of the plurality of entities in an ascending rank order direction.

6. The medium of claim 1, wherein the plurality of ranks are equally distributed over the plurality of array entries.

5 7. The medium of claim 1, wherein the entity having the greatest rank within the corresponding range of ranks for each of one or more of the at least one array entry is one of a subset of the plurality of entities having the greatest rank within the corresponding range of ranks for the array entry.

8. The medium of claim 1, wherein at least one array entry of the plurality of array
10 entries each points to null, corresponding to no entity within the plurality of entities
having a rank within the corresponding range of ranks for the array entry.

9. The medium of claim 1, wherein each entity of the plurality of entities is a thread, the rank of the entity is a priority for the thread, and the array is a priority queue.

10. A method for removing a particular entity from a plurality of entities, each entity
15 having a rank within a plurality of ranks, the method comprising:

in response to determining that the particular entity is present within a vertically linked list linking in at least one direction a corresponding subset of the plurality of entities having an identical rank, the corresponding subset including the particular entity, delinking the particular entity from the vertically linked list;

21. The method of claim 19, wherein each entity of the plurality of entities is a thread, the rank of the entity is a priority for the thread, and the array is a priority queue.

22. The method of claim 19, wherein the method is performed by execution of a computer program stored on a machine-readable medium by a processor.

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